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TI: Device for detecting ionizing radiation used in radiology comprises a plastically deformable damping layer with a covering layer arranged on a luminescent layer which in turn is arranged on a substrate
PN: DE10048810-A1
PD: 18.04.2002
AB: NOVELTY - Device for detecting ionizing radiation comprises a plastically deformable damping layer (3) with a covering layer (4) arranged on a luminescent layer (2) which in turn is arranged on a substrate (1). DETAILED DESCRIPTION - Preferred Features: The substrate is made from glass or aluminum. The luminescent layer is made from a doped alkali halide, preferably CsBr:Eu. The luminescent layer is in the form of needle-like crystals having a growing axis which is vertical to the surface of the substrate. The damping layer is a plastic film applied on the surface of the luminescent layer using an adhesive layer. The damping layer is made from CsBr or a soft metal such as Pb, In, Sn or Ga.; USE - Used in radiology. ADVANTAGE - The device is simple and robust. DESCRIPTION OF DRAWING(S) - The drawing shows a cross-section through the device. substrate 1 luminescent layer 2 damping layer 3 covering layer 4
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